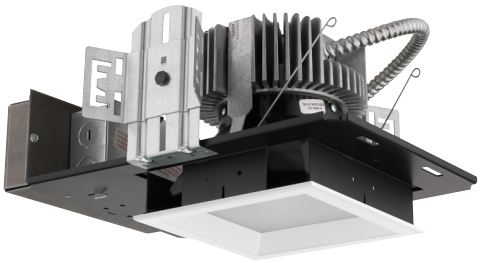
gotham® | EVO®

Multiple Layers of Light

Luminaire Type:

Catalog Number:

General Illumination Square Shower Downlight with nTune — 4"



OVERVIEW

Feature Set

- Tunable White solution that reproduces natural light patterns and colors, complements materials, and supports productivity.
- Rhythm Range (2700K-6500K) follows the cycle of daylight
- Productivity Range (3000K-5000K) to re-energize and inspire, ideal for collaboration
- WARMDIM® Range (3000K-1800K) for relaxing; warm and comfortable when dimmed
- Non-conductive dead-front trim
- Flush or regressed lensed trim with antimicrobial finish for wipe-down areas
- Rated 65,000 hours (L80) at 25°C ambient temperature
- Dim to Dark 100% - 0.1%

Distribution

medium wide
1.0 S:MH

Superior Perfomance

Nominal lumens	750	1000	1500	2000	2500
Delivered	782	1087	1447	1867	2224
Wattage	11	14	19	24	29
Efficacy	74	78	76	78	77

*80 CRI, 3500K

COMPLIMENTARY PRODUCTS

Coordinated Apertures | Multiple Layers of Light

General Illumination Layer | EVO

High Center Beam Layer | Incito

EVO + Incito — Multiple Layers of Light

Core

Healthcare

Special Applications

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com

ORDERING INFORMATION

A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: EVO4SQSH TUWH PROR/10 DFR SOL MVOLT NLT

Series	Dynamic Feature	Dynamic Range[1]	Nominal lumens values[2]	Reflector/Lens Setting/Flange Color	Lens
EVO4SQSH 4" Square Shower Downlight	**TUWH** Tunable White **WDIM** Warm Dimming	**PROR** Productivity Range (3000K-5000K) **RHYR** Rhythm Range (2700K-6500K) **HALR** Halogen Range (3000K-1800K)	**/07** 750 lumens **/10** 1000 lumens **/15** 1500 lumens **/20** 2000 lumens **/25** 2500 lumens **/30** 3000 lumens	**DFR** Regressed lensed white trim **DFF** Flush lensed white trim **DFRAMF** Regressed lensed white trim with antimicrobial finish **DFFAMF** Flush lensed white trim with antimicrobial finish	**SOL** Textured Lens **SMO** Smooth Clear Lens

Voltage	Control Interface Type	Options	
MVOLT Multi-Volt **120** 120V **277** 277V	**NLT**[3] nLight nTune interface **NLTER**[3] nLight nTune interface with emergency circuit **ZT** 0-10V dimming **DALI** DALI logarithmic dimming to <1%.	**SF** Single fuse. Specify 120V or 277V. **E10WCPR**[4] Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch **BGTD** Bodine generator transfer device	**90CRI** High CRI (90+) **CP**[5] Chicago Plenum

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190.
CTA4-8 YK	Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds 1" to fixture height.
FCS 7TSN XXX	Fresco Lighting Control; XXX = Color. Refer to FRESCO spec sheet for additional options.
nPODM 2P DX CCT XX	nLight 2 Channels, On/off + raise/lower control, CCT, XX = Color
nPODM 4S DX XX	nLight 4 Scene Control, On/off + raise/lower control, XX = Color
nPODM 4S XX	nLight 4 Scene Control, XX = Color

ORDERING NOTES

1. PROR and RHYR available only with TUWH. HALR available only with WDIM.
2. Nominal lumen values when tested at 3500K.
3. Requires power from nLight network bridge or nPS 80.
4. 11" of plenum depth or top access required for battery pack maintenance.
5. Voltage specific (120 or 277V). Battery pack not available.

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MAINSTREAM DYNAMIC BY ACUITY BRANDS

SPECIFICATIONS

Optical Assemby
Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling.
Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Electrical
The luminaire shall operate from a 50 or 60 Hz ±3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.
The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.
Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.
Input wires shall be 18AWG, 300V minimum, solid copper.

Controls
Tunable white nTune™ is an all-digital light color temperature control within an nLight enabled luminaire.
nTune™ allows color temperature settings through the Productivity Range of 3000K to 5000K or Rhythm Range of 2700K to 6500K.
Refer to nLight Programming User's Guide for instructions on customizing your application with SensorView™.

Dimming
The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

Construction
Luminaire housing shall be constructed of 16-gauge galvanized steel and have preinstalled telescopic mounting bars with maximum 32" and minimum 15" extension and 4" vertical adjustment.
Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 5").
Tool-less adjustments shall be possible after installation.
The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.
25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise).
For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

Listings
Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling.

Photometrics
LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 20% over the minimum operational life of 60,000 hours.

Buy American Act
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note:
Actual performance may differ as a result of end user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.

A+ Capable Luminaire
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.
*See ordering tree for details

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DFF SMO - Flush Clear							
Nominal Lumens	250	500	750	1000	1500	2000	2500
Delivered	222	445	667	866	1316	1730	2224
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7
Efficacy	71.6	61.8	84.4	98.4	96.1	88.7	86.5

*Lumen output for 80CRI - 3500K

DFF SOL - Flush Textured							
Nominal Lumens	250	500	750	1000	1500	2000	2500
Delivered	203	407	610	792	1203	1582	2034
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7
Efficacy	65.5	56.5	77.2	90.0	87.8	81.1	79.1

*Lumen output for 80CRI - 3500K

DFR SMO - Regressed Clear							
Nominal Lumens	250	500	750	1000	1500	2000	2500
Delivered	203	405	608	789	1199	1577	2027
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7
Efficacy	65.5	56.3	77.0	89.7	87.5	80.9	78.9

*Lumen output for 80CRI - 3500K

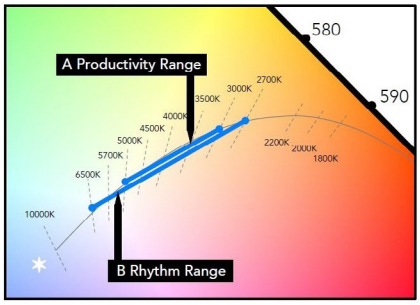
DFR SOL - Regressed Textured							
Nominal Lumens	250	500	750	1000	1500	2000	2500
Delivered	187	374	561	728	1106	1455	1870
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7
Efficacy	60.3	51.9	71.0	82.7	80.7	74.6	72.8

*Lumen output for 80CRI - 3500K

Lumen Output Multiplier		
CRI	CCT	Multplier
80	2700K	0.96
	3000K	0.97
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	3000K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
ZT	0.1%	Linear	Linear/Logarithmic
DALI	0.1%	Linear	Linear/Logarithmic

MAINSTREAM DYNAMIC TUNABLE WHITE WITH NTUNE TECHNOLOGY

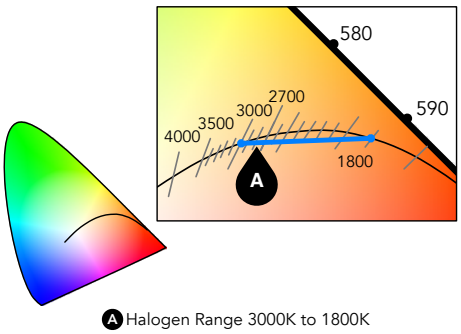


A Productivity Range 3000K to 5000K

B Rhythm Range 2700K to 6500K

Tunable white nTune™ is an all digital light color temperature control wihin an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune™ allows color temperature settings through the Productivity Range of 3000K to 5000K or Rhythm Range of 2700K to 6500K. Refer to nLight Programming User's Guide for instructions on customizing to your applicaton with SensorView™.

TUNABLE WHITE GPHD
Gamut: One dimensional warm-Cool
Path: Direct 3000K to 5000K (Productivity Range) or 2700K to 6500K (Rhythm Range)
Handle: Two Natural Language Handles: Intensity and CCT
Data: nLight with nTune technology for both handles of control



A Halogen Range 3000K to 1800K

How to Estimate Delivered Lumens in Emergency Mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1055CP

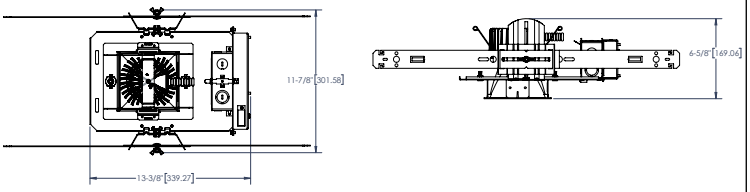
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

DIMENSIONAL DATA

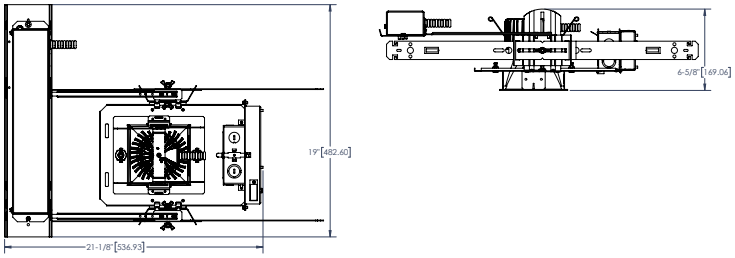
*Dimensions in inches [centimeters]

Aperture: 4-5/16" (11)	Ceiling Opening: 5-1/8" (13) self-flanged
Overlap trim: 5-7/16" (13.8)	5-1/4" (13.3) flangeless

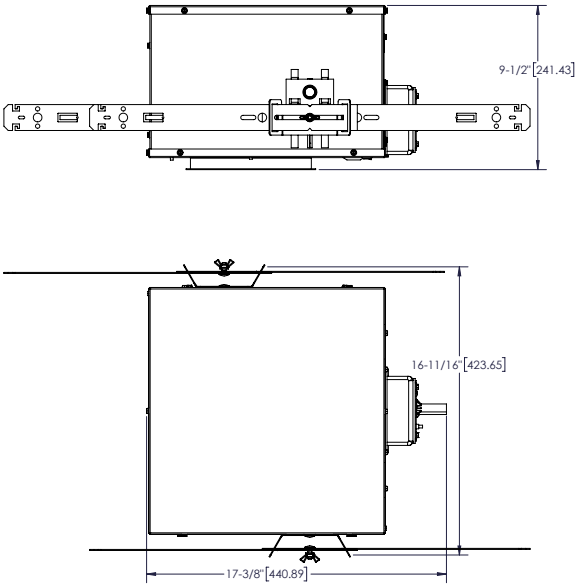
Standard



Battery Pack

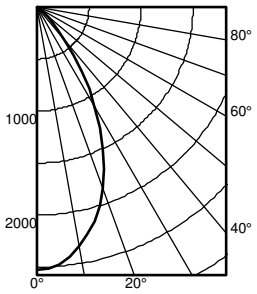


CP Standard



EV04SQSH TUWH RHYR /25 4DFF SM0 3500K

INPUT WATTS: 29.5, DELIVERED LUMENS: 2224, LM/W=75.4M, 0.85 S/MH, TEST NO. LTL29879P99



	Ave	Lumens
0	2531	
5	2484	232
15	2127	592
25	1499	681
35	749	469
45	221	180
55	41	42
65	16	16
75	8	8
85	4	3
90	0	

Zone	Lumens	% Lamp
0° - 30°	1505.0	67.7
0° - 40°	1973.7	88.7
0° - 60°	2196.2	98.8
0° - 90°	2223.9	100.0
90° - 180°	0.0	0.0
0° - 180°	2223.9	*100.0

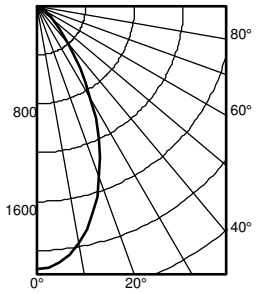
*Efficiency

pf / pc / pw	80%			70%			50%		
	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	110	108	106	108	106	104	104	102	101
2	102	98	95	101	97	94	97	94	92
3	95	90	86	94	89	85	91	87	84
4	89	83	79	88	82	78	85	81	77
5	83	77	72	82	76	72	80	75	71
6	78	71	67	77	71	67	75	70	66
7	73	67	62	72	66	62	71	66	62
8	68	62	58	68	62	58	67	61	58
9	65	58	54	64	58	54	63	58	54
10	61	55	51	61	55	51	60	54	51

Mounting Height	Inital FC Center Beam	50% beam - 46.4° Diameter	FC	10% beam - 76.9° Diameter	FC
8.0	83.7	4.7	41.8	8.7	8.4
10.0	45.0	6.4	22.5	11.9	4.5
12.0	28.0	8.2	14.0	15.1	2.8
14.0	19.1	9.9	9.6	18.3	1.9
16.0	13.9	11.6	6.9	21.5	1.4

EV04SQSH TUWH RHYR /25 4DFF S0L 3500K

INPUT WATTS: 29.5, DELIVERED LUMENS: 2034, LM/W=68.9, 0.81 S/MH, TEST NO. LTL29881P99



	Ave	Lumens
0	2157	
5	2111	197
15	1761	488
25	1191	542
35	616	387
45	251	201
55	111	102
65	65	65
75	38	40
85	10	12
90	0	

Zone	Lumens	% Lamp
0° - 30°	1227.3	60.3
0° - 40°	1614.3	79.4
0° - 60°	1917.3	94.2
0° - 90°	2034.4	100.0
90° - 180°	0.0	0.0
0° - 180°	2034.4	*100.0

*Efficiency

pf / pc / pw	80%			70%			50%		
	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	106	103	107	104	102	103	101	99
2	100	95	91	98	94	90	95	91	88
3	92	86	82	90	85	81	88	83	80
4	85	79	74	84	78	73	82	76	72
5	79	72	67	78	72	67	76	71	66
6	73	67	62	73	66	62	71	65	61
7	69	62	57	68	62	57	67	61	57
8	64	58	53	64	58	53	63	57	53
9	61	54	50	60	54	50	59	53	49
10	57	51	47	57	51	47	56	50	46

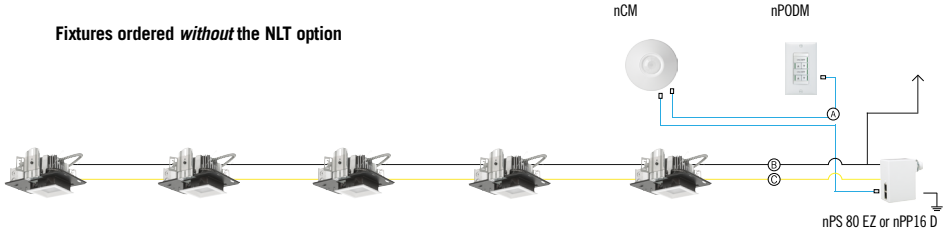
Mounting Height	Inital FC Center Beam	50% beam - 44.5° Diameter	FC	10% beam - 77.3° Diameter	FC
8.0	71.3	4.5	35.7	8.8	7.1
10.0	38.3	6.1	19.2	12.0	3.8
12.0	23.9	7.8	11.9	15.2	2.4
14.0	16.3	9.4	8.2	18.4	1.6
16.0	11.8	11.0	5.9	21.6	1.2

NLIGHT

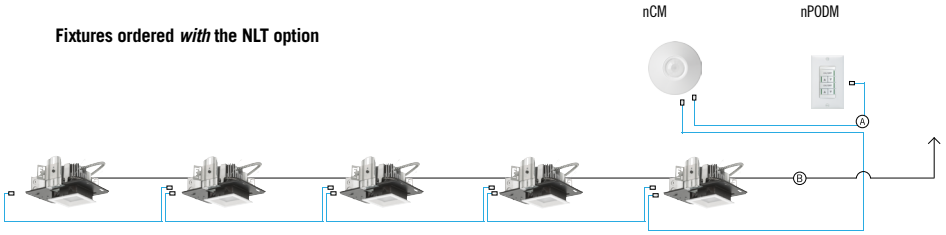
nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

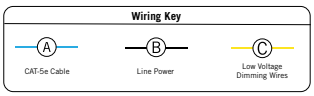
Possibilites for nLight® wired

Fixtures ordered *without* the NLT option



Fixtures ordered *with* the NLT option





nLight® Wired Control Accessories

Order as separate catalog number. Visit nLight.

Wall Switches	Model Number
On/Off single pole	nPODM XX
On/Off two pole	nPODM 2P XX
On/Off & raise/lower single pole	nPOD DX XX
On/Off & raise/lower two pole	nPODM 2P DX XX
Graphic touchscreen	nPOD GFX XX
Photocell Controls	
Dimming	nCM ADCX

nLight® Wired Control Accessories *(cont.)*

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX
Cat-5 Cables (plenum rated)	
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1